



Safety Data Sheet dated 8/10/2018, version 6

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Mixture identification:

Trade name: MOTORBLACK

Trade code: 0094

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use:

Liquid seal

1.3. Details of the supplier of the safety data sheet

Supplier:

Arexons S.p.A.

via Antica di Cassano, 23, 20063

Cernusco sul Naviglio (MI), Italy

Arexons S.p.A.

Tel. +39 (0)2/924361 - Fax +39 (0)2/92436306

Competent person responsible for the safety data sheet:

arexons@arexons.it

1.4. Emergency telephone number

Arexons S.p.A.

Tel. +39 (0)2/924361 - Fax +39 (0)2/92436306

Centro Antiveleni di Pavia IRCCS- Fondazione Maugeri tel. +39 (0)382 24444 (h24; it, en)

In England and Wales: NHS 111 - dial 111

In Scotland: NHS 24 - dial 111

In Ireland: Beaumont Hospital - National Poisons Information Centre 01 809 2166 (7days, 8:00 - 22:00)

In South Africa: Poison Information Helpline 0861 555 777

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP):

⚠ Warning, Eye Irrit. 2, Causes serious eye irritation.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



Warning

Hazard statements:

H319 Causes serious eye irritation.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

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Special Provisions:

None

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

PBT Substances:

2.9 % ottametiliclotetrasilossano - REACH No.: 01-2119529238-36, CAS: 556-67-2, EC: 209-136-7

vPvB Substances:

2.9 % ottametiliclotetrasilossano - REACH No.: 01-2119529238-36, CAS: 556-67-2, EC: 209-136-7

0.9 % Decamethylcyclopentasiloxane - REACH No.: 01-2119511367-43, CAS: 541-02-6, EC: 208-764-9

0.9 % Dodecamethylcyclohexasiloxane - REACH No.: 01-2119517435-42, CAS: 540-97-6, EC: 208-762-8

Other Hazards:

No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

>= 2% - < 3% ottametiliclotetrasilossano

REACH No.: 01-2119529238-36, CAS: 556-67-2, EC: 209-136-7

⚠ 3.7/2 Repr. 2 H361f

4.1/C4 Aquatic Chronic 4 H413

⚠ 2.6/3 Flam. Liq. 3 H226

>= 2% - < 3% Triacetato di metilsilantriile

REACH No.: 01-2119987097-22, CAS: 4253-34-3, EC: 224-221-9

⚠ 3.1/4/Oral Acute Tox. 4 H302

⚠ 3.2/1C Skin Corr. 1C H314

>= 0.5% - < 1% Decamethylcyclopentasiloxane

REACH No.: 01-2119511367-43, CAS: 541-02-6, EC: 208-764-9

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

>= 0.5% - < 1% Dodecamethylcyclohexasiloxane

REACH No.: 01-2119517435-42, CAS: 540-97-6, EC: 208-762-8

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

>= 0.5% - < 1% acetic acid...%

REACH No.: 01-2119475328-30, CAS: 64-19-7, EC: 200-580-7

⚠ 2.6/3 Flam. Liq. 3 H226

⚠ 3.2/1A Skin Corr. 1A H314

SVHC Substances:

2.9 % ottametiliclotetrasilossano

REACH No.: 01-2119529238-36, CAS: 556-67-2, EC: 209-136-7

Substance PBT and vPvB and SVHC

0.9 % Decamethylcyclopentasiloxane

REACH No.: 01-2119511367-43, CAS: 541-02-6, EC: 208-764-9

Substance vPvB and SVHC

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0.9 % Dodecamethylcyclohexasiloxane
REACH No.: 01-2119517435-42, CAS: 540-97-6, EC: 208-762-8
Substance vPvB

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do NOT induce vomiting.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

4.2. Most important symptoms and effects, both acute and delayed

None

4.3. Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

None

SECTION 5: Firefighting measures

5.1. Extinguishing media

To carbon dioxide.

To dust.

To water.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible

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authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Store in well-closed containers, preferably in a cool place, away from sources of heat and direct sunlight.

Only store in the original container.

Keep away from food, drink and feed.

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

ottametilciclotetrasilossano - CAS: 556-67-2

20101.04 - TWA: 120 mg/m³, 10 ppm

acetic acid...% - CAS: 64-19-7

EU - TWA(8h): 25 mg/m³, 10 ppm

DNEL Exposure Limit Values

N.A.

PNEC Exposure Limit Values

N.A.

8.2. Exposure controls

Eye protection:

Safety goggles.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Respiratory protection:

In case of insufficient ventilation, use adequate respiratory protection equipment.

Filter for organic vapours. Type A. (EN14387)

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

The normal (mechanical) ventilation of the room should be sufficient for work not extended with the product. For more extensive activities with it (or if necessary to ensure the well-being of the worker), a local mechanical air extractor should be provided.



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes:
Appearance and colour:	Paste tissotropica	--	--
Odour:	Characteristic	--	--
Odour threshold:	N.A.	--	--
pH:	N.A.	--	--
Melting point / freezing point:	N.A.	--	--
Initial boiling point and boiling range:	N.A.	--	--
Flash point:	>150°C	--	--
Evaporation rate:	N.A.	--	--
Solid/gas flammability:	N.A.	--	--
Upper/lower flammability or explosive limits:	N.A.	--	--
Vapour pressure:	N.A.	--	--
Vapour density:	N.A.	--	--
Relative density:	1,04	--	--
Solubility in water:	Insoluble	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient (n-octanol/water):	N.A.	--	--
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	N.A.	--	--
Viscosity:	N.A.	--	--
Explosive properties:	N.A.	--	--
Oxidizing properties:	N.A.	--	--

9.2. Other information

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Properties	Value	Method:	Notes:
Miscibility:	N.A.	--	--
Fat Solubility:	N.A.	--	--
Conductivity:	N.A.	--	--
Substance Groups relevant properties	N.A.	--	--

NA=not applicable

SECTION 10: Stability and reactivity

- 10.1. Reactivity
 - Vulcanizes at room temperature in contact with humid air.
- 10.2. Chemical stability
 - Stable at room temperature, not in contact with air.
- 10.3. Possibility of hazardous reactions
 - None
- 10.4. Conditions to avoid
 - Stable under normal conditions.
- 10.5. Incompatible materials
 - Strong oxidising agents. Water.
- 10.6. Hazardous decomposition products
 - Thermal decomposition or combustion can release carbon oxides and other toxic gases and vapours. Amorphous silica.
 - May produce hazardous substances during use or in contact with water.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological information of the product:

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a) acute toxicity

Based on available data, the classification criteria are not met

b) skin corrosion/irritation

Based on available data, the classification criteria are not met

c) serious eye damage/irritation

The product is classified: Eye Irrit. 2 H319

d) respiratory or skin sensitisation

Based on available data, the classification criteria are not met

e) germ cell mutagenicity

Based on available data, the classification criteria are not met

f) carcinogenicity

Based on available data, the classification criteria are not met

g) reproductive toxicity

Based on available data, the classification criteria are not met

h) STOT-single exposure

Based on available data, the classification criteria are not met

i) STOT-repeated exposure



Based on available data, the classification criteria are not met
j) aspiration hazard

Based on available data, the classification criteria are not met
Toxicological information of the main substances found in the product:
ottametilciclotetrasilossano - CAS: 556-67-2
d) respiratory or skin sensitisation:
Test: Skin Sensitization - Route: Skin - Species: CAVIA Negative
e) germ cell mutagenicity:
Test: Mutagenesis - Species: vitro Negative
f) carcinogenicity:
Test: Carcinogeneticity - Species: Rat Negative
g) reproductive toxicity:
Test: NOAEL - Route: Inhalation - Species: Rat 3.64 mg/l
Test: arx1 - Route: Inhalation - Species: Rat > 6.066 mg/l
Triacetato di metilsilantriile - CAS: 4253-34-3
d) respiratory or skin sensitisation:
Test: Skin Sensitization - Species: CAVIA Negative
e) germ cell mutagenicity:
Test: Mutagenesis - Species: vitro Negative
g) reproductive toxicity:
Test: NOAEL - Route: Oral - Species: Rat > 1000 mg/kg
Decamethylcyclopentasiloxane - CAS: 541-02-6
d) respiratory or skin sensitisation:
Test: Skin Sensitization Negative
e) germ cell mutagenicity:
Test: Mutagenesis - Species: vitro Negative
g) reproductive toxicity:
Test: NOAEL - Route: Inhalation - Species: Rat 3.64 mg/l
Dodecamethylcyclohexasiloxane - CAS: 540-97-6
d) respiratory or skin sensitisation:
Test: Skin Sensitization - Species: CAVIA Negative
e) germ cell mutagenicity:
Test: Mutagenesis - Species: vitro Negative
g) reproductive toxicity:
Test: NOAEL - Route: Oral - Species: Rat > 1000 mg/kg
Test: arx1 - Species: Rabbit > 1000 mg/kg
h) STOT-single exposure:
Test: oecd 11 Negative
i) STOT-repeated exposure:
Negative
acetic acid...% - CAS: 64-19-7
e) germ cell mutagenicity:
Test: oecd - Species: vitro Negative - Based on available data, the classification criteria are not met
g) reproductive toxicity:
Test: arx1 - Route: Oral - Species: Rat 1600 mg/kg

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

ottametilciclotetrasilossano - CAS: 556-67-2

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 0.022 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia > 0.015 mg/l - Duration h: 48

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- b) Aquatic chronic toxicity:
Endpoint: NOEC - Species: Fish > 0.0044 mg/l - Duration h: 2232
Endpoint: NOEC - Species: Daphnia 0.0015 mg/l - Duration h: 504

- e) Plant toxicity:
Endpoint: EC50 - Species: Algae > 0.022 mg/l - Duration h: 96
Triacetato di metilsilantriile - CAS: 4253-34-3

- a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish > 100 mg/l - Duration h: 96
Endpoint: LC50 - Species: Daphnia > 100 mg/l - Duration h: 48
Endpoint: EC50 - Species: Algae = 660 mg/l - Duration h: 96
Decamethylcyclopentasiloxane - CAS: 541-02-6

- b) Aquatic chronic toxicity:
Endpoint: NOEC - Species: Fish > 0.014 mg/l - Duration h: 2160
Dodecamethylcyclohexasiloxane - CAS: 540-97-6

- a) Aquatic acute toxicity:
Endpoint: NOEC - Species: Daphnia > 0.0046 mg/l - Duration h: 504
Endpoint: NOEC - Species: Algae > 0.002 mg/l - Duration h: 72
Endpoint: EC50 - Species: Algae > 0.002 mg/l - Duration h: 72

acetic acid...% - CAS: 64-19-7

- a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish > 1000 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia > 1000 mg/l - Duration h: 48
Endpoint: EC50 - Species: Algae > 1000 mg/l - Duration h: 72
Endpoint: LOEL - Species: Algae > 1000 mg/l - Duration h: 72

12.2. Persistence and degradability

None

ottametilciclotetrasilossano - CAS: 556-67-2
Biodegradability: Non-readily biodegradable - Test: N.A. - Duration: 28gg - %: 3.7 - Notes: N.A.

Triacetato di metilsilantriile - CAS: 4253-34-3
Biodegradability: Readily biodegradable - Test: N.A. - Duration: 21GG - %: 71 - Notes: N.A.

Decamethylcyclopentasiloxane - CAS: 541-02-6
Biodegradability: Non-readily biodegradable - Test: N.A. - Duration: 28gg - %: 0.14 - Notes: N.A.

Dodecamethylcyclohexasiloxane - CAS: 540-97-6
Biodegradability: Non-readily biodegradable - Test: OECD TG 310 - Duration: 28gg - %: 4.5 - Notes: N.A.

acetic acid...% - CAS: 64-19-7
Biodegradability: 4 - Test: N.A. - Duration: 20dd - %: 96 - Notes: N.A.

12.3. Bioaccumulative potential

ottametilciclotetrasilossano - CAS: 556-67-2
Bioaccumulation: N.A. Test: BCF - Bioconcentration factor 12400 - Duration: N.A. - Notes: N.A.

Decamethylcyclopentasiloxane - CAS: 541-02-6
Bioaccumulation: N.A. Test: BCF - Bioconcentration factor 7060 - Duration: N.A. - Notes: N.A.

Dodecamethylcyclohexasiloxane - CAS: 540-97-6
Bioaccumulation: Bioaccumulative - Test: BCF - Bioconcentration factor 2860 - Duration: N.A. - Notes: N.A.

acetic acid...% - CAS: 64-19-7
Bioaccumulation: N.A. Test: BCF - Bioconcentration factor 3.16 - Duration: N.A. - Notes: N.A.

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

PBT Substances:

2.9 % ottametilciclotetrasilossano - CAS: 556-67-2

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vPvB Substances:

2.9 % ottametilciclotetrasilossano - CAS: 556-67-2

0.9 % Decamethylcyclopentasiloxane - CAS: 541-02-6

0.9 % Dodecamethylcyclohexasiloxane - CAS: 540-97-6

12.6. Other adverse effects

None

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

Additional disposal information:

Contaminated packaging must be emptied as far as possible. After cleaning, send to an authorised centre for recycling or disposal.

SECTION 14: Transport information

14.1. UN number

Not classified as dangerous in the meaning of transport regulations.

14.2. UN proper shipping name

N.A.

14.3. Transport hazard class(es)

N.A.

14.4. Packing group

N.A.

14.5. Environmental hazards

ADR-Environmental Pollutant: No

IMDG-Marine pollutant: No

14.6. Special precautions for user

N.A.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) 2015/830

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

None

Volatile Organic compounds - VOCs = 6.44 %

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Volatile Organic compounds - VOCs = 64.40 g/Kg

Volatile Organic compounds - VOCs = 66.98 g/l

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)

Regulation (EC) nr 648/2004 (detergents).

Dir. 2004/42/EC (VOC directive)

SVHC Substances:

Substances in candidate list (Art. 59 Reg. 1907/2006, REACH):

ottametilciclotetrasilossano

PBT, vPvB

Decamethylcyclopentasiloxane

vPvB

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

None

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

Substances for which a Chemical Safety Assessment has been carried out:

None

SECTION 16: Other information

Text of phrases referred to under heading 3:

H361f Suspected of damaging the unborn child.

H413 May cause long lasting harmful effects to aquatic life.

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

Hazard class and hazard category	Code	Description
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Skin Corr. 1A	3.2/1A	Skin corrosion, Category 1A
Skin Corr. 1C	3.2/1C	Skin corrosion, Category 1C
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Repr. 2	3.7/2	Reproductive toxicity, Category 2
Aquatic Chronic 4	4.1/C4	Chronic (long term) aquatic hazard, category 4

Paragraphs modified from the previous revision:

SECTION 2: Hazards identification

SECTION 3: Composition/information on ingredients

SECTION 4: First aid measures

SECTION 5: Firefighting measures

SECTION 7: Handling and storage

SECTION 8: Exposure controls/personal protection

SECTION 10: Stability and reactivity

SECTION 11: Toxicological information

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SECTION 12: Ecological information
SECTION 13: Disposal considerations
SECTION 15: Regulatory information
SECTION 16: Other information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Eye Irrit. 2, H319	Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,
Commission of the European Communities
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van
Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS: Chemical Abstracts Service (division of the American Chemical Society).
CLP: Classification, Labeling, Packaging.
DNEL: Derived No Effect Level.
EINECS: European Inventory of Existing Commercial Chemical Substances.
GefStoffVO: Ordinance on Hazardous Substances, Germany.
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
IATA: International Air Transport Association.
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO: International Civil Aviation Organization.
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG: International Maritime Code for Dangerous Goods.
INCI: International Nomenclature of Cosmetic Ingredients.
KSt: Explosion coefficient.
LC50: Lethal concentration, for 50 percent of test population.
LD50: Lethal dose, for 50 percent of test population.
NA: Not applicable
PNEC: Predicted No Effect Concentration.
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.
TLV: Threshold Limiting Value.
TWA: Time-weighted average
WGK: German Water Hazard Class.